# **ASSIGNMENT – 4**

# **OBJECTIVE**

To develop a code and make connections in wokwi for ultrasonic sensor, whenever distance is less than 100 cm send "Alert" to IBM cloud and display in device recent events.

### **CODE**

```
const int TRIG_PIN = 7;
const int ECHO_PIN = 8;

const unsigned int MAX_DIST = 23600;
void setup() {
    pinMode(TRIG_PIN, OUTPUT);
    digitalWrite(TRIG_PIN, LOW);
    pinMode(ECHO_PIN, INPUT);

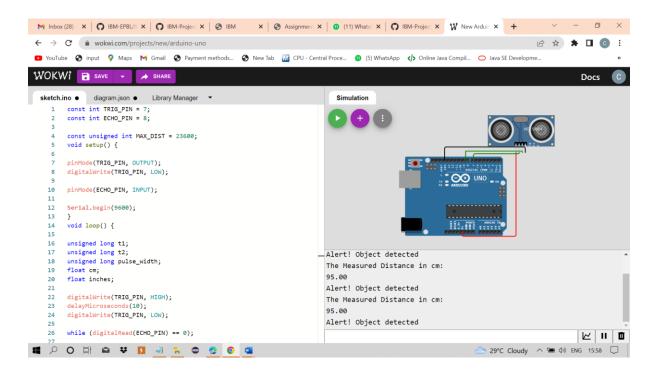
    Serial.begiv(9600);
    }
    void loop() {
    unsigned long t1;
    unsigned long t2;
    unsigned long pulse_width;
    *Tloat cm;
    float inches;

    digitalWrite(TRIG_PIN, HIGH);
    delayMicroseconds(10);
    digitalWrite(TRIG_PIN, LOW);

while (digitalRead(ECHO_PIN) == 0);

t1 = micros():
```

## **STIMULATION**



# **WOKWI LINK**

https://wokwi.com/projects/346849052469494355